

PURUS – VII (SEMESTER PATTERN): April-May-2014
SUBJECT: PHARMACOLOGY-IV

Day: Monday
Date: 05.05-2014

Time: 2.00 P.M. To 5.00 P.M.
Max. Marks: 80

N.B.:

- 1) Q. No 1 and 5 are **COMPULSORY**. Out of the remaining attempt any **TWO** questions from **Section – I** and any **TWO** questions from **Section – II**.
- 2) Answer to the two Sections should be written in the **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

SECTION – I

- Q.1** Give scientific reasons for **ANY FIVE** of the following (10)
- a) Sulphadoxin plus pyrimethamine
 - b) Amoxicillin plus Cloxacillin
 - c) Clavulanic acid plus Amoxicillin
 - d) Ciprofloxacin plus Tinidazole
 - e) Getamicin plus Carbinicillin
 - f) Dexamethazone plus Micanazole
 - g) Metronidazole plus Diloxanide
- Q.2** a) Classify antimalarials and mention their mechanism (08)
- b) Describe mechanism of action, and treatment guidelines of ANTI AIDS drugs (07)
- Q.3** a) Describe treatment of amoebiasis (08)
- b) Classify antitubercular drugs. discuss the mechanism of action of first line antitubercular drugs (07)
- Q.4** Write short note on **ANY THREE** (15)
- | | |
|------------------------------------|----------------------------------|
| a) Indications of penicillin | b) Fluroquinolone antimicrobials |
| c) Adverse effects of tetracycline | d) Aminoglycosides |

SECTION - II

- Q.5** Answer **ANY FIVE** of the following (10)
- a) Name hormones of anterior pituitary gland
 - b) Enumerate preparations of insulin
 - c) Give example of natural estrogens
 - d) Classify antithyroid drugs
 - e) Define immunosuppressants give one example
 - f) Classify oral hypoglycaemic agents
 - g) Define anabolic steroids

P.T.O.

- Q.6** a) Classify oxytocics. Discuss the pharmacological action, uses and adverse effects of oxytocin (08)
- b) Explain the mechanism of action, and adverse effect of oral contraceptives (07)
- Q.7** a) Explain how insulin regulates the blood sugar level in diabetic patients (08)
- b) Describe the drugs used in pregnancy (07)
- Q.8** Write short note on **ANY THREE** of the following (15)
- a) Antiandrogens b) Antidiuretic hormone
c) Growth hormone d) Immunostimulants

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PURUS - VIII (SEMESTER PATTERN): APRIL / MAY - 2014
SUBJECT: DRUG REGULATORY AFFAIRS

Day : Saturday
Date : 03-05-2014

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 80

N.B.:

- 1) Q.No.1 and Q.No.5 are **COMPULSORY**. Out of remaining questions attempt **ANY TWO** from each section.
- 2) Answers to both the sections should be written in the **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION - I

- Q.1** Answer the followings: [10]
- a) Write labelling condition for veterinary drugs.
 - b) What is drug consultative committee?
 - c) Write any two offences under pharmacy act?
 - d) Write conditions for repacking license?
 - e) What are the conditions for a substance to be patentable?
- Q.2** a) Describe in details provisions for various Drug selling licenses. [10]
b) Give brief idea of code of pharmaceutical ethics. [05]
- Q.3** a) Give details of schedule Y under Drugs and cosmetic act. [10]
b) What are the qualifications for Government analyst? [05]
- Q.4** Prepare notes on: [15]
- a) Central drug laboratories.
 - b) Schedule X drugs.
 - c) Medicinal and toilet preparations.

SECTION - II

- Q.5** Define the followings: [10]
- a) Cosmetic
 - b) Displaced person
 - c) Bonded laboratory
 - d) Advertisement
 - e) Leader price
- Q.6** a) Give the current major provisions made for price control of drugs. [10]
b) State the pharmaceutical policy. [05]
- Q.7** a) Write and explain different provisions made under Narcotic drugs and psychotropic substance act. [10]
b) Explain different exemptions stated under schedule K of Drug and cosmetic act. [05]
- Q.8** Prepare notes on: [15]
- a) Labelling conditions for ophthalmic drugs.
 - b) Subsequent register.
 - c) Need of N D P S act.

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PURUS -VIII: APRIL / MAY - 2014 (Sem pattern)
SUBJECT: PHARMACEUTICAL MANAGEMENT

Day : Tuesday
Date : 06-05-2014

Time 2:00 P.M. ^{TO} 5:00 P.M.
Max. Marks: 80

N.B.-

- 1) Question no. 1 and Question no. 5 are **COMPULSORY**.
- 2) Attempt any **TWO** questions from each section.
- 3) Use separate answer sheets for both the sections.
- 4) Figures to the right indicate full marks.

SECTION - I

- Q. 1** Solve **any five** of the following: (10)
- a) Why pharmacy is art, Science & profession
 - b) Define Policy and procedure
 - c) Draw a schematic diagram of departmentation by geography
 - d) What is budget? State its Importance
 - e) State the characteristic of TRIPS
 - f) State the advantages of planning
 - g) Show schematically the concept of management
- Q. 2** a) Discuss the various theories of motivation. (08)
b) Give a detailed account of leadership qualities. (07)
- Q. 3** a) Explain the process of staffing. Comment on performance appraisal techniques. (10)
b) Discuss the various control techniques in an organization. (05)
- Q. 4** Write notes on **any three** of the following. (15)
- a) Line and staff relationship
 - b) Principles of direction
 - c) Decentralization of authority
 - d) Development of Pharma Industry in India

SECTION - II

- Q. 5** Solve **any five** of the following: (10)
- a) What is economy order quantity?
 - b) What is FIFO system in stores?
 - c) Define GLP & state its principle
 - d) State the significance of SOP
 - e) Define validation and concurrent validation
 - f) What is the meaning of calibration?
 - g) State the importance of pharma audit

P.T.O.

- Q. 6** Solve the following example and identify normal critical path with time and money involved and crashed critical path with time and money involved. **(15)**

Activity	Time		Money	
	Normal	Crashed	Normal	Crashed
1 → 2	6	4	4000	6000
1 → 3	4	2	6000	8000
2 → 3	4	3	5000	8000
3 → 4	6	4	8000	10000
4 → 5	2	1	4000	6000

- Q. 7** Sovereign Pharmaceuticals manufactures ethambutol tablets of batch size 100,000. The selling price / tab is Rs. 1.00. Total variable cost is Rs. 20,000, Fixed cost is 30,000 Calculate: **(15)**
- P/V ratio
 - BEP
 - BEP if selling price increased by 20%
 - Operating sales at profit Rs.20,000
 - Profit at operating sales Rs.80,000
 - Margin of safety

- Q. 8** Write notes on **any three** of the following: **(15)**
- Principles of ISO 9000 series
 - Product life cycle
 - GMP in relation to building
 - Functions of QA department

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PURUS-VIII (SEMESTER PATTERN) : APRIL/ MAY - 2014
SUBJECT : MEDICINAL CHEMISTRY-IV

Day : Friday
Date : 25-04-2014

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 80.

N.B.:

- 1) Q. No. 1 and Q. No. 5 are **COMPULSORY**. Out of the remaining attempt **TWO** questions from Section-I and any **TWO** questions from Section-II.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Answers to both sections should be written in **SEPARATE** answer books.

SECTION-I

- Q.1** Answer any **FIVE** of the following: (10)
- a) Write down the structure and IUPAC name of any one (i) Cortisone (ii) Estradiol.
 - b) Give synthesis of tripeleminamine.
 - c) Give any two examples of antisecretory agents (H_2 antagonists) with their structure.
 - d) Give any two examples of prostaglandins along with their uses.
 - e) Give the structure of warfarin.
 - f) Give two examples of tricyclic antihistaminics along with their structures.
- Q.2** What are corticosteroids? Discuss the chemistry SAR, mechanism of action and uses of corticosteroids. (15)
- Q.3** What are antihistaminic agents? Give their detail chemical classifications? Explain in brief chemistry SAR and uses of amino alkyl ethers. Give any one synthesis from the same class. (15)
- Q.4** Write short notes on any **THREE** of the following: (15)
- a) Nomenclature of prostaglandins
 - b) oral anticoagulants
 - c) Combinatorial chemistry
 - d) H_2 antagonists.

SECTION-II

- Q.5** Answer any **FIVE** of the following: (10)
- a) Give two examples of arylpropionic acid derivatives with their structure.
 - b) Give any two structures of narcotic analgesic.
 - c) Enlist different insulin preparations.
 - d) Enlist antithyroidal drugs.
 - e) Write down the synthesis of phenacetin.
 - f) Enlist different drugs used for liver function test.
 - g) Give any one Synthesis of synthetic narcotic analgesics.
- Q.6** What are narcotics? Give their classifications explain in brief chemistry, SAR of morphine and their analogues. (15)
- Q.7**
- a) Discuss in detail the chemistry, SAR and MOA of thyroid hormone. (10)
 - b) Give the synthesis of Thyroxine (T_4). (05)
- Q.8** Write short notes on any **THREE** of the following: (15)
- a) Radio opaque diagnostic agent
 - b) Methods of QSAR
 - c) Salicylic acid class of NSAIDS
 - d) Oral hypoglycemic agents.